



# SABIC® PP 49MK45

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

### DESCRIPTION

SABIC® PP 49MK45 is specially developed for producing injection molded articles. This grade contains nucleating & antistatic agents. It has medium flow properties and excellent impact - stiffness balance.

### TYPICAL APPLICATIONS

SABIC® PP 49MK45 can be used for housewares, furniture, toys, appliances, pails & containers.

### TYPICAL PROPERTY VALUES

Revision 20230511

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
@ 230°C & 2.16kg load	21	g/10 min	ASTM D1238
<b>Density at 23°C</b>	905	kg/m³	ASTM D1505
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Tensile Properties</b>			
Strength @ Yield	29	MPa	ASTM D638
Elongation @ Yield	5	%	ISO 527-1/-2
<b>Flexural Modulus (1% Secant)</b>	1400	MPa	ASTM D790 A
<b>Notched Izod Impact Strength at 23°C</b>	65	J/m	ASTM D256
<b>Notched Izod Impact Strength at -20°C</b>	35	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	95	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Point</b>	150	°C	ASTM D1525
<b>Heat Deflection Temperature at 455kPa</b>	106	°C	ASTM D648

(1) Typical values, not to be construed as specific limits  
(2) Based on injection molded specimens

### PROCESSING CONDITIONS

Barrel temperature range: 200 - 250°C Mold Shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions. Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

### STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.



#### DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

